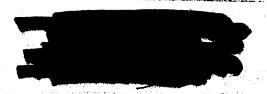
5257

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Form 504
U. S. COAST AND GEODETIC SURVEY
DEPARTMENT OF COMMERCE
DESCRIPTIVE REPORT
Type of Survey Afydrographic
Field No. Office No. 325
LOCALITY State Claska General locality Afognak Slaus Locality Shuff Bay
19#2— SHIEF OF PARTY H.B. amplell
LIBRARY & ARCHIVES
DATE

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Form 504 Ed. June, 1928 DEPARTMENT OF CON U. S. COAST AND GEODETIC SU	JRVEY	
	H & COAST & G	EODETIC, SUR D ARCHIVES
	APR 2	9 1933
State: Alaska	Acc No.	
DESCRIPTIVE R	EPORT	
Hydrographic Sheet No. 25	5257	
LOCALITY	1	
Afognak Island	4 4 4	
Izhut Bay		
1932		
OHIEF OF PART	Y	



DEPARTMENT OF COMMERCE

U. S, COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field No. 25.....

REGISTER NO.5257

State Salaska
General locality Afognak Island
Locality Izhut Bay
Scale 1/20,000 Date of survey SeptOct. , 19 32
Vessel U.S.S. DISCOVERER
Chief of Party H. B. Campbell
Surveyed by H. B. Campbell, W.M. Scaife, G.A. Nelson
Protracted by G. A. Nelson
Soundings penciled by G. A. Nelson
Soundings in fathoms ****
Plane of reference M. L. L. W
Subdivision of wire dragged areas by
Inked by Examination
Verified by
Instructions dated April 21, 19 32
Remarks:

U. S. GOVERNMENT PRINTING OFFICE: 1929

DESCRIPTIVE REPORT

to accompany

HYDROGRAPHIC FIELD SHEET #25

U.S.C.& G.S.S. DISCOVERER

H. B. Campbell, Comdg.

Scale - 1/20,000

Season 1932.

AUTHORITY

This survey was made under the Directors instructions dated April 21, 1932.

LIMITS

This sheet covers Izhut Bay, Afognak Island. It joins with sheets #24 and 42 on the SE. and with Register # H 3015 on the SW.

METHOD OF SURVEY

The greater part of the survey was made by motorsailer, using the hand lead up to 12 fathoms and the wire in greater depths. The hand lead lines were frequently checked during the progress of the work. The sheaves used in wire soundings were checked at the beginning and the end of the season and found correct.

The ship worked parts of two days near the center of the mouth of the bay, using the fathometer. Depths in this area are around 100 fathoms and many of the fathometer readings

obtained are questionable because of the difficulty in reading / the fathometer at this depth.

The M. V. WESTDAHL worked chiefly in intermediate depths.

Its fathometer corrections are attached to this report.

DISCREPANCIES & ADDITIONAL WORK RECOMMENDED

Discrepancies are noted in the WESTDAML soundings in the vicinity of Lat. 58°-09.4°, Long. 152°-17.0°, pos. 664-684, 272B-273B, and 276-277B.

Inasmuch as additional work will be required in the Bay,
Mr. Scaife, in charge of the WESTDAHL, recommends that this be
examined in the field. He further recommends that the area off
the point on which station BAY is located be further developed.
See note - Sounding vol. #8 page 11.

There are several questioned ships soundings at or near 100 fathoms positions 11-164. It is recommended that additional vertical casts be taken in this area.

Due to the lateness of the season it was impractical to complete the survey to the required standard of accuracy.

GENERAL DISCRIPTION

Izhut Bay is characteristic of Alaskan coastline. Its shores and headlands and points are steep-to and rocky, fringed with kelp. Bights and coves have sand and gravel beaches at their extremities.

ANCHORAGES

The most important of these is the arm on the west side (/ Low Buy having its entrance about 3 miles NW of Peril Cape. This arm extends in a WNW direction about 21 miles, its head being a landlocked basin fully protected from all directions. To enter: steer 3050 T passing the well defined N point of the entrance slightly less than 1/2 mile. This course and distance will lie on a range defined by the tangent of the prominent point on the north side about 12 miles in, and the stream at the head of the small bight at the head of the arm. Continue on this course until within 1 mile of the small prominent islet in midchannel. This position will be abeam of an islet to starboard, distance off 1/3 mile, lying within 100 yds. of the north shore. To port of this position, distance off 125 yds., is a 3 fm. spot marked with a few streamers of kelp which are difficult to see. Steer midchannel courses here on to center of basin, which is clear to within a few yards from shore. Allow water spit extends a few yards off the north entrance point. Anchor in 20-22 fms., good holding ground. in Kitoi Bay

Small vessels may anchor in a small bight to the SW of the main basin, 11-12 fms., mud bottom.

Two finger-like arms extend about 2 miles northward in the NE corner of the main bay. The easterly arm has an island about

1/2 mile from its entrance. The passage is to the W of this island. The controlling depth is 2 fms. Small vessels may anchor above this island, 7-10 fms., sand bottom. About 125 yds. south of the island in the channel is a sunken rock, we sic work covered 4 ft. at MLW. The west arm contains a small island near its head with a rock awash at about MLW lying about pos 1517 ppss 1013.

200 yds. SE from it. The arm is otherwise clear but not particularly well protected from the south.

A small bight on the west side of the bay, lying about 2 miles south of its head, is well protected and convenient for small vessels which may anchor close inshore. The center, over 30 fms. deep, makes it inconvenient for larger vessels to anchor. In entering, favor the southern shore to avoid a 1-4/6 fm. spot about 550 meters, 90° true, from a small bare per 42d pp 48 Vo/2 rock on the northern side of its entrance..

approved & Forwardee

HYDROGRAPHIC FIELD SHEET # 25

STATISTICS

				No. o	f Sound	lings		of Sde	, line
Vessel	Date	Day	Pos.No.		Wire	Fath.	H.L.	Wire	Fath.
s.M.s.	Aug.12	a	140	81	238	-	3.0	15.7	
**	Aug.23	ь	197	280	218		7.0	13.5	
**	Sept.15	C	211	173	304		7.0	20.2	
**	Sept.16	đ	173	187	245		5.5	16.4 -	.===
**	Sept.17	•	97	74	198	-	2.3	11.5	
Ħ	Sept.19	Í	171	131	293	-	4.9	19.3	
#	Sept.21	g	117	93	185		2.6	11.3	
•	Sept.22	h	165	360	158		12.5	7.5	
***	Sept.25	j	159	165	230		5.8	15.7	400 (10) -40 -
*	Sept.24	k	125	248	98		8.0	5.0	
Ħ	Sept.26	m	135	366	113		14.0	8.2	
Ħ	Sept.28	n	141		266			28.3	
*	Sept.29	g	147		277			28.2	
Westdahl	Sept.22	3 A	170		41	500		3.7	36.6
Ħ	Oct. 5	В	301		5 8	1014		2.4	76.0
*	Oct. 6	c	43	6	26	31			2,4
SHIP	Aug.23	A	44		1	116			24.6
*	Sept.3) В	31			115			15.0
	Totals	18	2567	2164	2929	1776	72.6	206.9	154.6

FATHOMETER CORRECTIONS

HYDROGRAPHIC FIELD SHEET # 25

Date (1932)	Pos.	_		Fath. Sdg.			Index Corr
0/07	448	30.0					
8/23	444	10.0	6.5	109.0	100.0	•	

APPROVAL OF CHIEF OF PARTY

Sheet #25 and accompanying records have been inspected by me. Both the field and office work were done under my supervision.

Additional work to clear up doubtful areas and fill up unsurveyed areas is recommended.

It is recommended that the smooth sheet be returned for completion of the survey during the ensueing year.

Respectfully forwarded:

At Campbell

H. B. Campbell,

Chief of Party, C. & G. Survey

FATHOMETER CORRECTIONS - (M.V. WESTDAHL) HYDROGRAPHIC SHEET No.25

In obtaining fathometer corrections for this sheet all comparisons were listed and by inspection corrections were selected
which seemed to be the average during the time the soundings were
taken, allowance being made for uneven bottom. Corrections for
salinity and temperature were not made as the corrections would
be negligible in these depths. A mean correction cannot be taken
for a whole day as the zero of the fathometer shifts during the
days work.

FATHOMETER CORRECTIONS - (M.V. WESTDAHL)

HYDROGRAPHIC SHEET No. 25

Sept. 22, 1932

Oct. 5, 1932

Pos.	V. C.	Fath.	Corr.	:	Pos.	V. C.	Fath.	Corr.
1 A	24.7	24.5	+ 0.2		1 B	20.3	ż1. 0	- 0.7
7+A	20.6	20.5	+ 0.1		19 B	16.9	17.0	- 0.1
13 A	32.0	31.5	+ 0.5		94 B	30.1	30.0	+ 0.1
28 A	25.6	25.5	+ 0.1		136 B	20.2	20.0	+ 0,2
39+A	31.1	30.5	+ 0.6		151 B	29.2	29.0	S.0 +
72 A	29.5	28.0	+ 1.5		193 B	37.9	37. 5	+ 0.4
89 A	62.0	61.0	+ 1.0		217 B	42.0	42.0	0.0
103 A	62.7	61.5	+ 1.2		229+B	38.0	3 8.0	0.0 *
127 A	26.4	26.0	+ 0.4		232 B	37. 6	37.0	+ 0.6
166 A	46.0	46.0	0.0		248 B	27.5	27.5	0.0
100 #					301 B	27.0	27.0	0.0

Corrections to Fath. Soundings

Positions 1-33 --- 0.0 Fath.

- * 33-56 Add 0.5
- " 56-103 " 1.0 **"**
- " 127-146 " 0.5 "
- 146-166 --- 0.0

* - Adjusted Fathometer.

Corrections to Fath. Soundings

Positions 1-10 Sub. - 0.5 Fath.

- # 10-231 --- 0.0 ¹
- * 232-244 Add 0.5
- * 244-301 ---- 0.0

Oct. 6, 1932

Pos.	¥. C.	Fath.	Corr.	
32 C	21.0 27.4	21.0 27.0	0.0	

Corrections to Fath. Soundings

Positions 32-43 --- 0.0 Fath.

May 19, 1933.

Division of Hydrography and Topography:

/ Division of Charts:

Tide Reducers are approved in

9 volumes of sounding records for

HYDROGRAPHIC SHEET 5257

Locality Izhut Bay, Afognak Island, Southwest Alaska

Chief of Party: H. B. Campbell in 1932

Plane of reference is mean lower low water, reading

3.6 ft. on tide staff at Izhut Bay

10.2 ft. below B. M. 1

8.7 ft. on tide staff at Marmot Island

5.9 ft. below B.M. 1

Height of mean higher high water above plane of reference in 8.9 ft. at Ishut Bay; 9.8 ft. at Marmot Island.

Condition of records satisfactory except as checked below:

- 1. Locality and sublocality of survey omitted.
- 2. Month and day of month omitted.
- 3. Time meridian not given at beginning of day's work.
- 4. Time (whether A.M. or P.M.) not given at beginning of day's work.
- 5. Soundings (whether in feet or fathoms) not clearly shown in record.
- 6. Leadline correction entered in wrong column.
- 7. Field reductions entered in "Office" column.
- 8. Location of tide gauge not given at beginning of day's work.
- 9. Leadline corrections not clearly stated.
- 10. Kind of sounding tube used not stated.
- 11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
- 12. Legibility of record could be improved.
- 13. Remarks.

Chief, Division of Tides and Currents.

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 5257

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	2361
Number of positions checked	.35,6
Number of positions revised	10
Number of soundings recorded	6869
Number of soundings revised	19
Number of signals erroneously	
plotted or transferred	0

Date: Suly 20. 1933
Cartographer Asian

Section of Field Records.
Surveyed in 1932 Report on Jr. 5257 Chief of Party Dr. B. Campbell. Surveyed by H.B. Campbell; W.M. Scaife, In Melson! Strotracked by L. a. Velson. Soundings plotted by L. A. Melson. Virifief and Inked by Fast Than 1. The Records conform to the require ments of the General Instructions, except that us statement regarding correction or tests of sounding apparatus was tabulated in the hecolde of the work done by the Starboard Motor Sailor. It is Inted, however, that the note "Instruments OK"affeared at the beginning and ending of lack days work, also that on page 11 IF method of Survey of the Descriptive Refart, if is stated that the lead lines where checked frequently and the sheaves were checked at the beginning and ending of the season and found correct. 2. The plan and character of development fulfill the requirements of the General Instructions except as noted in FF3 of this Refait

3. The plansand extent of development was not bully completed due & the end of the season. See Descriptive Refort page 2 Discrepancies and additional Hork
Recommended", also affroval note by
the Chief of Farty the Chief of Karty 1 adequate for this survey. 5. The usual defth curves can be, completely drawn except close inshow, and where there is insufficient devel-ofment. ofment. 6. The Rield Plotting was completed to I the extent prescribed in the Hydrographic Manual land is considered excellent. 7. We part of the Field drafting was done over; although several rock awash symbols and notes of Hydrographic simportance were omitted, these were transferred from the Tofografhic sheet I the Hydrographic sheet 8 This sheet makes a satisfactory function with H 5258 on the southeast. The function with # 5256 on the north Each will be considered in the verifications

#5257 - 3. 9. Remarks. (a) Soundings from 272 B & 273 B inclusive have been left in pencil, (Jax. 58-09. 4 and Long. 152: 17.0) It is noticed that line 242-273 B would fall inside of the line 65-68 A if Dob were used for the left object instead of o Dik (Vol. 7, pp 6869) See Description Refort (#3257) page 2 FP Discrepancies and addional Work Recommended. pos 11-16A (Voll 9. Pp 5) were questioned by the field - these have beed left in pencil on the Smooth Sheet until further surveying either proves on disfroves them! It is resticed that there is a considerable difference between the fathometer and V.C. comparison at pos 44 A. There is fair agreement of the soundings on these sheet (# 5057) with the adjacent sheet H 5258 in the vicinity of the 1st fathom curve with the exception of the 111 fm. sounding at position 17 A and the 101 for sounding next to the 86 at pos 18 A. (c) The following rocks awash are shown on the Smooth sheet which are not shown on the Topographic Sheet (44738) 1. Rockawash 74 Incters NW of oLik-baye 3 MLLW. Ady. on pos. 54 e, Vol 3.pp 15. Lat 580 10.75' Y Long/52.2075 2. Rock awash 290 meters west by sould of ANAK32 on pop. 104d, Tol 2pp 58. bare 1'MLLW. Tax 58-14.30 hogg 152-1935 sdy 1 3. Rockdillach 46 meters SWof o Wot of \$158-12.65 hong 152 can These rocks are fairly close inshare, generally aurrounded by kelp and probably were not visible to the topographic party.

(d) Further surveying is required to snow fully develop the area 12 miles to the rior the westward of Paril Cape — directed to the rior the westward of Paril Cape — directed to the rior (a) line 272-273 B) letter terms of 24 fathom pounding close to the 50 fm. curve at position 1/2 A Vol 1 pp. 20 Lat 58-09.8' hong. 152-16. 42' Alexa 19, line 102, 143 B dout 44 mi SW JASLANT for 152-16. 42' Alexa 19, line 102, 143 B dout 44 mi SW JASLANT for secons mended by the field the area off the point on which A BAY is located should be further developed. Doundings on the turn between pos 5 and 6 B are not plotted due to the incertainty of their true position and because this area will probably be covered adequately when the additional work is executed.

 C_{-}

Pespectfully Submitted July 20. 1933. DEPARTMENT OF COMMERCE

AND REFER TO NO. 82-DRM

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 2, 1933.

SECTION OF FIELD RECORDS

Review of Hydrographic Survey No. 5257

Izhut Bay, Afognak Island, Alaska Surveyed September-October 1932 Instructions dated April 21, 1932 (DISCOVERER)

Chief of Party, H. B. Campbell
'Surveyed by H.B.C., W. M. Scaife, G. A. Nelson
Protracted and soundings plotted by G.A.N.
Verified and inked by L. S. Straw

- 1. The records conform to the requirements of the Hydrographic Manual except that more bottom characteristics should have been entered in the sounding records; also failure to enter fathometer soundings to half fathoms as required by paragraph 32.
- 2. The plan of development conforms to the requirements of the Hydrographic Manual and satisfies the specific instructions. The completion of the sheet was prevented by the close of the season. See descriptive report for recommendations and discrepancies not adjusted.
- Soundings on shoals show steep slopes and irregular bottom. A recorded 22 (pos. 125 c, vol. 2) was discredited by adjacent soundings of 14 and 15 fathoms, lat. 58° 08'.2, long. 152° 16'.

 A 24 (112 A, vol. 7) in lat. 58° 09'.8, long. 152° 16'.4 is probably an error in recording. It has been plotted but further development in the vicinity is needed. The line 272-273 B, vol. 7, noted as a discrepancy in the descriptive report has not been plotted. It is not essential but further examination of the locality has been planned by the field party. Some of the fathometer soundings (12-16 A, vol. 9) have been questioned by the field party due to the difficulty of reading the fathometer when depths are close to 100 fathoms. They have been plotted as they are in fair agreement with adjacent soundings. Vertical casts in this area is part of the additional work recommended by the field party. These should be taken.
- 4. Depth curves in the completed area can be drawn satisfactorily.
- 5. Junctions with H. 5256 and H. 5258 to the southeast are satisfactory. The area to the southwest is not adequately surveyed, only a few soundings from H 3016 fall within the area govered by this sheet.

- 6. Comparison: A few soundings from H. 3016 (1909) fall within the area covered by H. 5257. The depths are in good agreement but the scale is small (1:80,000) and the development inadequate for comparison. Chart 8555 shows very little detail in Izhut Bay and has no information in conflict with this survey.
- 7. The field drafting was good. A few rocks awash were added to the sheet from the topographic sheets, apparently missed by the field party in making the transfer.
- 8. Recommendations: In addition to filling in the blank areas for in the middle of Izhut Bay, the following areas should be further of developed:
- (a) The detached 19 about 1 1/2 miles northwest of Peril Cape and check the discrepancy in line 272-273 B as noted in the descriptive report; also the 17 fathom sounding 1/2 mile northwest.
- (b) A further development of the bank 2 miles north of Peril Cape, especially the 24 plotted close to the 50 fathom curve at the southern end of the bank.
- (c) Additional lines in the channels southeast of the point on which triangulation station Bay is located. See descriptive report.
- (d) Vertical casts in the vicinity of the 100 fathom curve to check the fathometer work of 1932. See descriptive report (11 to 16 A, Ship).

This survey (H. 5257) is suitable for charting purposes.

9. Reviewed by R. J. Christman, July 27, 1933.

Approved:

L. O. Colbert

Chief, Section of Field Records

Chief, Division of Charts

F. S. Borden

Chief, Section of Field Work

G. T. Rude

Chief, Div. of H. and T.

DEPARTMENT OF COMMERCE

AND REFER TO NO. 21-mm

U. S. COAST AND GEODETIC SURVEY

WASHINGTON

August 2, 1955.

Hydrographic Servey 5257

Memorendum on additional work required to complete hydrographic servey of lubat Bay shows on H. 5257.

- Lat. 58° 15'.5, long. 152° 15'.5, further development required . of two sheals, least depths shown 16 and 17 fathoms. This development should he done by feeling shout the area with a small boat to deternine whether or not the least water has been obtained. Additional split lines should be run to give additional soundings in the two channels, one to the eastward and the other to the westward of these two shouls; also to cover the eres immediately south of them.
 - Lat. 58° 14'.2, long. 152° 18'.1. An 8 3/4 fathom spot located on a sounding line was not examined. This should be developed.
 - Lat. 58° 12'.7, long. 152° 17'.4. Develop 45 fathom sounding and determine limits of 50 fathom curve.
 - Lat. 58° 12'.6, long. 152° 16'. Develop 41 father sounding located on sounding line without further examination.
 - Lat. 58° 10'.5, long. 152° 14'. Area not covered by hydrography, / due to close of field season, to be sounded.
 - Lat. 58° 99', 152° 15'. Additional hydrography required for the some reason as in paregraph 5. The 50 fathom curve should be developed if soundings on the split lines in this area are not in excess of that depth.
- Lat. 50° 10'.1, long. 152° 17'.6. Additional development of this area should be made by feeling about the bottom with several sounding lines, using a small boat, to determine whether there is less unter than the two 10 fathom rocky shouls found by running lines during the Avapmentations original developments. This area is located off an important point leading into an excellent anchorage and would be subject to wire drag development if equipment were available.
- be unded to 44416
- Lat. 58° 99'.8, long. 152° 18'.8. Similarly develop the 10 Sathon Sathonoter sounding, Extend doubpment to include 15 fathor spot to northward out 12 fathou spot to southward.
- Lat. 58° 00'.8, long. 152° 16'.4. The 34 fathom wire sounding requires development.

- 10. Lat. 58° 09°.2, leng. 152° 17°.2. Mineteen fathom sounding, with 17 fathom sounding about 1/2 mile to the northwest. These two soundings should be further developed. Additional split lines should be run west of the 19 fathom sounding for the reason that the line between positions 272 and 275 B (Sestdahl) is questionable. The shoal soundings along this line do not agree with adjacent lines and the field party recommended they not be plotted. The soundings may through doubt on the accuracy of the line immediately westward of the 19 fathom sounding.
 - 11. Develop the 20 fathem curve immediately east of triangulation station press 2. Two uplit lines should be run in the vicinity of the 20 fathem sounding transferred to the boat shoet from the 1909 survey.
 - 12. Re-run eres edjacent to the 100 fathom curve, taking fathemeter casts as recommended by the field party due to the limitation of reading the fathemeter at this depth.

Attention of the Chief of Party is called to the requirement in paragraph 38 of the Hydrographic Menual that soundings obtained by the fathemeter in depths less than 100 fathems should be recorded to the narrest half fathem.

As it may be of interest to the Chief of Party, a copy of the review as prepared for signature in approving the survey is inclosed.

L. O. Colbert Chief, Section of Field Records.

525 Additional work

U. S. COAST & GEODETIC SURVEY LIBRARY AND ARCHIVES

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Form 504 Ed. June, 1928	
DEPARTMENT OF COMMERCE	
U. S. COAST AND GEODETIC SURVEY	
R.S. Patton Director	
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State: S. W. Alaska	
State: 3. W. Zidbac	
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Izhut Bay	
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CHIEF OF PARTY	
CHIEF OF FART	
H. B. Campbell	1

Additional work

5257

Additional work

DEPARTMENT OF COMMERCE

U. S. COAST AND GEODETIC SURVEY

HYDROGRAPHIC TITLE SHEET

The Hydrographic Sheet should be accompanied by this form, filled in as completely as possible, when the sheet is forwarded to the Office.

Field	No.	

REGISTER NO. H-5257

State Alaska
General locality Afognak Island
Locality Izhut Bay
Scale 1:20,000 Date of survey Sept. 21-22 , 1933
VesselDISCOVERER
Chief of Party H. B. Campbell
Surveyed by H. B. Campbell
Protracted by
Soundings penciled by
Soundings in fathoms ************************************
Plane of reference M.L.L.W.
Subdivision of wire dragged areas by
Inked by M. Day
Inked by J. W. Day Verified by J. W. Dand
Instructions dated April 21, 1932, March 25 , 1933
Remarks:

DESCRIPTIVE REPORT

to accompany

SHEET H-5257

U.S.C.& G.S.S. DISCOVERER

H. B. Campbell, Commanding

Scale 1:20,000

Season of 1933

AUTHORITY

The additional work on this sheet was made under the Director's Orders and Instructions dated March 25, 1933 and April 21, 1932.

LIMITS

This work covers the incompleted area in Izhut Bay, and joins Sheet #41 (1933) on the south.

METHODS OF SURVEY

The ship was used to complete the hydrography in this area, using the fathometer red-light method. Some vertical casts were taken to verify the results obtained with the fathometer.

DISCREPANCIES AND ADDITIONAL WORK

The discrepancy noted in last year's report, Positions 11-16A, was rerun this year and found to agree closely from Positions 13-16A. It is recommended that the soundings from 11A through 12A be rejected.

Due to the lateness of the season and more important areas to develop, the other additional work recommended in the 1932 report was not accomplished.

The automatic tide gage at Kodiak was used to determine the tidal reduction.

Respectfully submitted.

Jr. H. & G. Engr

Approved and forwarded:

TIDAL NOTE

H. & G. Engr., Commanding.

HYDROGRAPHY SHEET H-5257

STATISTICS

Vessel	Date	Day	Positions	Number of Soundings		Miles of
				Fathometer	Wire	Sdg. Lines
Ship	Sept.21	A	118	566	5	56.0
**	Sept.22	В	41	243	2	27.8
Totals			159	809	7	83.8

FATHOMETER COMPARISONS

Date	Pos.#	Temper	rature	Fath.	Vert.	Corr,	T.& S.	Index
		Sur.	Bot.	Sdg.	Cast		Corr.	Correction
9-21 - 33	26 Aª	8.5	8.0	60.0	59.0	-1.0	+0.7	-1.7
	32 A*	8•0	6.0	115.0	106.1	-8.9		
**	42 A*	8.2	5.8	99.0	98.2	-0.8	+1.0	-1. 8
19	55 A*	8.0		90.0	88,6	-1,4	+1.0	-2.4
	78 A*	8.0		97.0	95.4	-1.6	+1.0	-2.6
9- 22- 3 3	34 B*	7.8		87.0	86.3	-0.7	+1.0	-1.7
Ħ	41 B*	7.8	6.8	87.0	86.8	-0.2	+1,0	-1.2
ļ							Sum	-11-4

FATHOMETER CORRECTIONS - 1933

Mean Index Corr. -1.9

Sheet No. 5257

10 fms. - 50 fms. = -1 fms.
51 " - 91 " = -1 fm.
92 " & up = less than 1% no correction.

April 9, 1934

Division of Hydrography and Topography:

Division of Charts:

Tide Reducers are approved in volume of sounding records for

HYDROGPAPHIC SHEET 5257 (Additional Work

Locality Izhut Bay, Southwest Alaska

Chief of Party: H. B. Campbell
Plane of reference is mean lower low water, reading
* 4.0 ft. on tide staff at Kodiak
19.9 ft. below B. M. 8

Height of mean higher high water above plane of reference is about 9 feet.

(*) Due to the depth Kodiak tides were used without correction. Since the tidal records for Kodiak are not yet available in this office the reducers have been checked with predictions. The soundings have not been reduced.

Soul O Whitney

Condition of records satisfactory except as noted below:

Chief, Division of Tides and Currents

Field Records Section (Charts)

HYDROGRAPHIC SHEET No. 52.57 (Additional Work)

The following statistics will be submitted with the cartographer's report on the sheet:

Number of positions on sheet	159
Number of positions checked	3.
Number of positions revised	None
Number of soundings recorded	816
Number of soundings revised	24
Number of signals erroneously	
plotted or transferred	None

Date: June 6 /934 Cartographer: John			
Verification of protracting by	. •		
Verification of inking by	` J.W.Day	Time:	20.5 hr
Review by	Pithuistman	Time:	 9 he.

Section of Field Rundo Report on 4-5257 (additional Work) Verified and inked by J.W.Day The records conform to the requirements of the General Instructions. The twenty fathom, fifty fathom and one hundred fathom curves were completed within the limits of the sheet. The plotting was completed to the extent prescribed in the sureal Instructions. No additional junctions were made with adjacent sheets as those sheets have not been verified at this The soundings on the turns have been left in pencil I as per the writers instructions from Mr E. P. Ellis Note was made of a bad crossing at Lat. 58-09.4 Long. 152°- 15.8 On the line of positions 9A and 10A the fathameter observer was relieved at position 9A. a bad crossing was observed at Lat. 58° 09'9 Long 152 - 14,2 a group of soundings at Lat. 58-09.5 Long 152-13.5do not appear to be satisfactory. adjustment was made of a crossing involving positions 67A' to 68A' and UA' at approximately Lat 58 - 10', Long 152 - 41'. Note was made of two soundings made at an isolated position 19A' Lat 58 - 11.2 Long, 152 - 14.7 one sounding could not be plotted

A shoal occurs at approximately Lat. 58° 06.3

Long. 152°-12.5 This condition was not investigated to
faither as the adjoining work on an adjacent sheet

was not verified at this date.

The additional work is identified by the
day positions A' and B' in red ink;

The drafting was of good quality.

Respectfully submitted

J: W. Day

June 6,1934

Supplemental Review of H. 5257

(Additional work 1933)

This sheet is still incomplete. Only a part of the work recommended by the Chief of Party in the 1932 Descriptive Report was completed in 1933. The memorandum specifying the work necessary to complete H. 5257 was not received in time for the work to be done during the 1933 season.

The work done in 1933 is covered by par. 5, 6, 11 and 12 of the Memorandum (par. 8 and 8d of the Review), the other items, 1 to 4 and 7 to 10, both inclusive, remain uninvestigated.

8. The former blank area is sufficiently covered outside the 50 fathom curve except in the vicinity of lat. 58°11', long. 152°16' where the spacing of lines still greatly exceeds the specification in the instructions. The area is apparently deep water but close to the 50 fathom curve (item 5 and 6 of the memorandum).

The area in the vicinity of lat. 58°10°, long. 152°13'.5 where a 29 between two 33 falls in a general depth of 40 with a 19 about 200 meters to the eastward, shows the need of closer development inside the 50 fathom curve.

8d. The smooth sheet has been corrected for the additional work adjacent to the 100 fathom curve in the vicinity of lat. 58°09', long. 52°13' (item 12 of the memorandum).

The area mentioned in par. 11 of the memorandum seems to be sufficiently developed.

The survey fails to join H. 3015 by about 500 meters whereas the instructions call for an overlap with this sheet.

Supplemental review by - R. J. Christman - June 1934.

Additional work inspected by - A. L. Shalowitz.

Examined and approved:

K. T. Adams.

K.T. Adams

Chief, Section of Field Records.

Chief, Division of Charts.

Chief, Section of Field Work.

Chief. Division of H. & T.

NAUTICAL CHARTS BRANCH

SURVEY NO. <u>H-5257</u>

Record of Application to Charts

DATE	CHART	CARTOGRAPHER	REMARKS
15 Apr 48	8533	nielos	Before (After) Verification and Review
/			Completely applied.
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
			Before After Verification and Review
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M-2168-1

A basic hydrographic or topographic survey supersedes all information of like nature on the uncorrected chart. Give reasons for deviations, if any, from recommendations made under "Comparison with Charts" in the Review.

Applied to Chart No.
8533 (1934), 1:80,000.
8534 (1935), 1:80,000. J. W.M.